OVERVIEW

Varex Imaging CMOS (complementary metal-oxide semiconductor) Flat Panel X-ray Detector (FPD) 2315MAM CL is a high speed, low noise detector with excellent sensitivity for use as a component in X-ray systems for mammography applications.

The tapered case profile allows improved coverage of the chest wall, with the field of view extending to within 3 mm of the edge of the case.

FEATURES AND BENEFITS

- 74.8 µm pixel pitch
- 3072 x 1944 px
- High DQE at low dose
- 14 bit digital output
- Various scintillator options available
- BNC input/output for X-ray generator synchronization
- Camera Link data connection

APPLICATIONS

- Full field digital mammography
- Tomosynthesis and breast CT
## Technical Specifications

### SENSOR
- Pixel Size (µm)............................ 74.8
- Sensitive Area (mm²)...................... 229.8 x 145.4
- Pixel Matrix (px)......................... 3072 x 1944
- Sensor Type.............................. CMOS active pixel sensor
- Chest Wall to Active Area (mm)......... 3.0

### MAX FRAME RATE (FPS)
- Pixel Binning 1 x 1....................... 17

### IMAGE PERFORMANCE
- Dynamic Range (dB)...................... typ. 70
- High Dynamic Range Mode.............. typ. 70
- High Sensitivity Mode.................... typ. 66
- X-ray Energy Range (kV)............... 15 - 49

### MECHANICAL
- Weight (kg)............................. 3.3
- Dimensions.............................. 232.5 x 276.9 x 43.0

### MECHANICAL CHARACTERISTICS

(Dimensions in mm)

![Dimensions Diagram]

### COMMUNICATIONS
- Control Channel......................... 115 kBaud serial link
- Sync In Port.............................. 3 - 15 V edge or level trigger
- 2 x Sync Out Ports...................... TTL (0 - 3.3 V)

### POWER
- Power Supply Input..................... 50 - 60 Hz 100 - 240 VAC
- Dissipation.............................. 21 W

### SCINTILLATOR OPTIONS
- High Resolution CsI
- High Resolution Mammography Gd₂O₂S:TB (GOS)

### TEMPERATURE RANGE
- Operating Temp......................... +10°C to +40°C
- Storage Temp............................ -10°C to +50°C

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1 Unless otherwise specified, Varex Imaging Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements.

Contents in this document are subject to change without notice.